Date: Sat, 2 Apr 94 19:08:14 PST

From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>

Errors-To: Info-Hams-Errors@UCSD.Edu

Reply-To: Info-Hams@UCSD.Edu

Precedence: Bulk

Subject: Info-Hams Digest V94 #369

To: Info-Hams

Info-Hams Digest Sat, 2 Apr 94 Volume 94 : Issue 369

Today's Topics:

6m Equipment?

AEA Hot Rot whip for HT

ARLD018 DX news

Ham Fest Chicago

Hams, FCC, Delays, BS walks

Heinous operating techniques (AGAIN!)

HELP: Anyone know what a XR2206 chip is?

Mid Atlantic Hamfest Listing 4/2/94

Misc. Questions on Choosing a Dual-Band HT

Need info on Kenwood R-1000

Repeater Voter Questions

thanks for info - mobile purchase

Time to lighten up.....

Where to buy crystals

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu> Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 28 Mar 94 07:30:03 GMT

From: hp81.prod.aol.net!search01.news.aol.com!not-for-mail@uunet.uu.net

Subject: 6m Equipment? To: info-hams@ucsd.edu

I am looking for good, INEXPENSIVE, 6m equipment. How do the Azden radios (mobile, HT) compare with some of the more expensive options that are available (Kenwood)? Also, what about used equipment? What is available?

Thanks,
Bryan Koen
N0YKN
bkoen5@aol.com

Date: 3 Apr 94 02:33:08 GMT

From: dog.ee.lbl.gov!agate!usenet.ins.cwru.edu!odin!trier@ucbvax.berkeley.edu

Subject: AEA Hot Rot whip for HT

To: info-hams@ucsd.edu

In article <ah301-290394073455@sy_j.pgh.wec.com>,
Jerry Sy <ah301@yfn.ysu.edu> wrote:
>I tested it on an swr meter and its swr is > 3, my rubber duck is < 1.5 !</pre>

You can tune it by adjusting the length, checking it on the meter until you find something < 1.5. Scribe that length into the side of the antenna so you can find it again without the meter.

BTW, there is usually no need to cross-post so widely. I've set followups to just rec.radio.amateur.antenna.

Stephen

- -

Stephen Trier KB8PWA "It don't mean a thing if it ain't got that Other: trier@ins.cwru.edu certain je ne sais quois."

Home: sct@po.cwru.edu - Peter Schickele

Date: Sat, 02 Apr 94 04:44:23 GMT

From: ihnp4.ucsd.edu!agate!usenet.ins.cwru.edu!news.ysu.edu!malgudi.oar.net!

infinet!n8emr!bulletin@network.ucsd.edu

Subject: ARLD018 DX news To: info-hams@ucsd.edu

Automatic relayed from packet radio via
N8EMR's Ham BBS, 614-895-2553

SB DX @ ARL \$ARLD018 ARLD018 DX news

ZCZC AE16 QST de W1AW DX Bulletin 18 ARLD018 >From ARRL Headquarters Newington CT March 31, 1994 To all radio amateurs

SB DX ARL ARLD018 ARLD018 DX news

The items in this week's bulletin are courtesy of Bob, W5KNE, QRZ DX, Chod, VP2ML, The DX Bulletin, Bob, WB2DIN, James, K6OZL, the Yankee Clipper Contest Club PacketCluster network, and Contest Corral in QST. Thanks.

YEMEN. Achmed, ex HZ1FM, has activated club station 701AA. The return of 701AA to the airwaves was on March 30. Equipment left by Paul, F6EXV, is being refurbished and expected to be on-line soon. Schedules for QSOs with stateside stations have been set up. On Friday try 14243 kHz at 1500z with OE6EEG as net control. On Saturday try the same frequency at 1600z, again with OE6EEG. Plans are to move to the 14226.5 Family Hour Net shortly thereafter. QSL via Box 485, Aden, Yemen.

MACAO. XX9AS, OH6DO, OH2KNB and OH2BH have an Easter Holiday gift for you. They will be putting XX9TZ on the air from the Hyatt Regency on Taipa Island from Friday, April 1 through Monday the 4th. Though this will be an all band effort, pay particular attention to 25 kHz up on 40, 20, 15 and 10 meters for CW, and 7065, 14195, 21295 and 28495 kHz for SSB.

FRANZ JOSEF LAND. R1FJC has been on the air recently. This could be the first of a new series of call signs for the island.

JUAN DE NOVA ISLAND. Listen for FR5ZQ/J to be active through the end of April. Check 14247 kHz between 1700 and 1900z, and 14256 kHz from 0200 through 0400. QSL via CBA.

EUROPA ISLAND. FR5ZU/E is on the air and plans operations to last for four or five weeks. Try the same frequencies and times listed for Juan de Nova above. QSL via CBA.

BANGLADESH. UA4RZ plans to be signing S21ZL soon.

BANABA ISLAND. Listen for T33CS and T33KK throughout this weekend. QSL via G4WFZ and SM7PKK respectively.

TRINDADE ISLAND. PY1UP will be on as PY0TUP from April through August. QSL his home call sign.

NIGERIA. Rudi, DL9GMM/5N0, will be on until year end from Lagos, mostly with CW at 100 watts. Try 3513 kHz at 2300z, 10104 at 2350 and 14014 at 2115. QSL via home call sign after his return to Germany.

THIS WEEKEND ON THE RADIO. The Holyland DX Contest, sponsored by the Israel ARC, is a 24 hour event that starts at 1800z April 2. Exchange signal report and serial number beginning with 001. Israeli stations will send their area instead of a serial number.

The SP DX CW Contest runs from 1500z April 2 through 2300z April 3 on 160, 80, 40, 20, 15 and 10 meters. Non SP stations send a six digit serial number consisting of RST and serial number starting with 001. Polish stations will send RST and a two letter province designator.

For more details on these operating events, check page 119 of March QST.

NNNN /EX

Date: 2 Apr 94 20:03:41 GMT From: rci!pfc@uunet.uu.net Subject: Ham Fest Chicago To: info-hams@ucsd.edu

The Chicago Amateur Radio Club will be sponsoring it's annual Ham Fest on May 29, 1994 at DeVry Institute of Technology, 3300 N. Campbell, near Western & Belmont (2400 W/3200 N)

from 8 Am to 3 Pm. For further info call George Sopocko 312-545-3622 tue-sat 10 am to 4 pm. or E-Mail blondell@rci.ripco.com

- -

"I'd rather have a bottle in front of me than a frontal lobotomy!!!!!"

---Paul Frank Covello
E-Mail: pfc@ripco.com
FTP: ftp.ripco.com
Talk: pfc@foley.ripco.com

Date: Fri, 1 Apr 1994 15:09:43 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!

howland.reston.ans.net!usenet.ins.cwru.edu!nshore!seastar!jjw@network.ucsd.edu

Subject: Hams, FCC, Delays, BS walks

To: info-hams@ucsd.edu

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As quoted from <CnJHHp.D3w@fore.com> by ed@fore.com (Ed Bathgate):
> I am in the same waiting game as others waiting for my 1st call sign.
> The FCC (GOV'T as whole) seems to cater to the big groups & big $$$.
> ( Yeah ok Ed, nothing we already dident know. )
> I am surprised as to how few STRONG electronic techs & engineers there
> are anymore. Yes the trade schools are turning grads out in droves, but
> I bet that my wife could do more to trouble shoot a digital dashboard
> in a GM car than could the majority of Graduated Electronic techs!
> And she has only learned from watching me.
> I recently looked for some Ham Radio Magazines, but only found 1 after
> a long drive to a large magazines only shop.
> I remember years back, you could go to just about any convience store
> or food store and get Popular Electronics, Radio Electronics, Elementary
> Electronics, CQ, 73, and on some occasions QST.
> Those days are gone. I counted no less than 12 different Wrestling
> mags, 6 music magazines, 5 bridal mags, 6 off road mags, 3 hot rod mags,
> 4 different bathing suit mags (sim to sports illustrated swimsuit)
Uh, I must live in heaven then. Most of the local stores
(Omni (grocery store), Osco drug, even K-mart) have at least *some* of
those titles. I've not seen QST or Elementary Electronics, but Omni
regularly has CO, 73, Popular Electronics and Electronics Now (I think
it used to be Radio Electronics).
The catch is, they only have about 5 or 10 copies of them.
When these sell out, they're out till next month. Perhaps you picked
a bad day - keep looking.
While (its_not_working())
                                                     John Welch, N9JZW
  mess_with_it();
                                                     jjw@seastar.org
Date: 2 Apr 94 12:10:17
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!lerc.nasa.gov!
magnus.acs.ohio-state.edu!csn!news.usafa.af.mil!usafa2!jcmiller@network.ucsd.edu
Subject: Heinous operating techniques (AGAIN!)
To: info-hams@ucsd.edu
In article <bote.765267957@access1> bote@access1.digex.net (John Boteler) writes:
   (quoting antoher)
   >each others mistakes. This is the way it works on repeaters. A
```

>new ham listens for a while, hears all the bad practices, and >proceeds to do likewise. Perhaps this is how bad habits are >propagated?

I'll say!

The latest thing around here, and I hope it is not becoming accepted practice nationwide, is to key up and say "Here is" or "This is" then quit transmitting to wait a second for the <beep>, then continue transmitting your callsign to check into a controlled net.

Not only is this a waste of net time, it just sounds stupid.

I can anticipate that someone will rationalize that this pause allows one to discern if he is doubling with another station trying to check in, a la W3HXF. It don't work!

In fact, it is even worse than simply transmitting your callsign and shutting up because callsigns have variable length, "this is" takes almost exactly the same time to speak regardless of the speaker. So much for that argument.

I just hope that this is a local* phenomenon which has been propogated by the newcomers mimicing newcomers, as Jeff has pointed out above. The trouble is that this disease is spreading over several of the linked repeater systems, meaning that the number of newcomers exposed to this time waster is multiplied many times.

The practice you're referring to has been used on (some) USAF MARS nets for awhile now, and in fact is taught as "good operating practice".

I'm with you, though. I think it sounds dumb and in my experience does NOT reduce the number of doubles during check-ins. You hit the nail on the head -- the phrase (proword, for you MARS types) "this is" takes virtually the same amount of time regardless of who the op is. If two ops key down at the same instant, they will "hear" each others' pauses, and keep on going, thinking that they aren't doubling with someone else. The few times I've seen this work is when either a) one of the ops speaks much slower than the other, or b) one of the ops holds the PTT switch a touch longer and some background noise is transmitted, thus letting the other op hear that there is another station on frequency.

Personally, when I check into a MARS net, I generally wait until

it seems all the other ops in my state have checked in, then check in when NCS says "Any others from state XX?" I generally don't have the loudest signal on freq, so that generally works the best -- I just mash the PTT, and give the full check-in statement, just like the manual says. No pauses here.

- -

Jeff Miller, NH6ZW/NO, AFA5MJ (ex WD6CQV, AFA1DO, AFA8JM, AFA1HE)
USAFAnet Manager and General Troubleshooter [jcmiller@gems.usafa.af.mil] or
HQ USAF/DFYC, USAF Academy, CO 80840 [millerjc%dfyc@dfmail.usafa.af.mil]
55: It's not a good idea, it's just the law. E-mail for NMA info.

Date: 2 Apr 94 06:25:32 GMT

From: ihnp4.ucsd.edu!swrinde!sgiblab!sgigate.sgi.com!olivea!isc-br!tau-ceti!

jupiter!opus-ovh!bmork@network.ucsd.edu

Subject: HELP: Anyone know what a XR2206 chip is?

To: info-hams@ucsd.edu

ceb@synergy.ai.mit.edu (Christopher Barnhart) writes:

- > |> Help, has anyone out there heard of a chip XR2206?
- >
- > This device is a Monolithic Function Generator made by EXAR.
- > Don't know where do get them anymore. I think EXAR died or
- > or was purchased by someone.

Isn't this a modem chip? I think EXAR is alive and well. My dual 16C550 chip on my PC's i/o board has an EXAR label.

Date: 2 Apr 1994 16:14:14 -0500

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!news.intercon.com!

news1.digex.net!access.digex.net!not-for-mail@network.ucsd.edu

Subject: Mid Atlantic Hamfest Listing 4/2/94

To: info-hams@ucsd.edu

MID-ATLANTIC HAMFEST LISTING

April 2, 1994

The following is a listing of known hamfests in the MD/NJ/PA/VA area. I will update this list as necessary. Please send any additions or corrections to me at cps@access.digex.net so that others may benefit.

Thanks,

Chris Smolinski, N3JLY

April 10, 1994:

HAMCOMP '94 8AM-1PM, \$5 adm, \$12 tailgating, \$20 table. Trenton State College, Rt 31, Ewing Township. Talk-In 146.67-, 146.52 simplex. Contact Don Write AA2F (609) 737-1723.

May 7, 1994:

Kent Island ARC, 8AM-2PM, \$4 adm, free tailgating VFW, VFW Road, Behind Sleep Inn, Kent Island, MD Talk-In 146.94/146.34

May 15, 1994:

HAMFEST '94, 7AM-2PM, \$5 adm, \$8 tailgating, \$12 tables. Middletown Grange Fairgrounds, Penns Park Rd, Wrightstown, PA Talk-In 147.09/R, 146.52 simplex Contact: George Brechman N3HBT (215) 443-5656

May 21, 1994:

Cherryville Hamfest, 8AM-2PM, \$6 admission, \$10 tailgating, \$15 tables Warren County Farmers Fairgrounds, Rt 518 North, Harmony, NJ I78-exit 3. Contact Keith Burt, KF5FK, (908) 788-4080 before 10PM VE Test Session Contact Marty Grozinski, NS2K, (908) 806-6944 before 9PM Talk-In 147.375+ & 146.820-

May 22, 1994:

Great Hagerstown Hamfest, 8AM-3:30PM, \$5 adm, \$5 tailgating, \$20 tables Hagerstown Jr COllege Rec Center, Exit 32B from I-70, right at Edgewood Rd Contact Page Pyne or Fred Bailey (301) 714-0688 VE Exams 9AM contact Pat KQ8E at (304) 289-3576 Talk-In 146.34+

June 5, 1994:

Ole Virgina Hams ARC Hamfest, 8AM-3PM \$5 adm, \$5 tailgating

Prince William County Fairgrounds, SR 234 Manassas, VA Talk-In 146.97-, 224.66-Contact Jim Hawk N3ODZ, PO Box 1255 Manassas, VA 22110

June 19, 1994:

Father's Day Hamfest, 8AM-3PM, \$5 adm, \$5 tailgating Walkersville Fire Co, Walkersville, MD, rt 15 to rt 26 to rt 194 Frederick Amateur Radio Club, PO Box 1260, Frederick, MD 21702 Talk-In 146.52, 147.06+, 448.425-

July 10, 1994:

Maryland Hamfest, 8AM-?, tailgating opens at 6AM Timonium Fairgrounds, York Rd, I-695 to I-83 to Timonium Rd BRATS, PO BOx 5915, Baltimore, MD 21208 VE Exams 10AM, Pre-registration required Talk-In 147.03+, 224.96-

July 16, 1994:

Red Rose Repeater Assn, 9AM-3PM \$5 adm, \$5 tailgating, \$20 tables McCaskey High School, Reservoir & N Franklin Streets, Lancaster, PA Red Rose Repeater Assn, PO Box 8316, Lancaster, PA 17604 Talk-In 147.015+

August 7, 1994:

Southern Patuxent Hamfest, 7AM-2PM, \$5 adm, \$5 tailgating, \$25 tables Prince George County Equestrian Center, Upper Marlboro, MD Rt 301/ Rt 4, exit 11-A (Rt 4 Pennsylvania Ave) from DC Beltway I-495 Contact: Southern Patuxent ARC, PO Box 399, St Leonard, MD 20685 (410) 586-2177

Talk-In 147.15

Hamfest 94, 8AM-?, \$5 adm, \$3 tailgating Bucks County Drive In Theater, rt 611, 6mi N of Pa Turnpike exit 27 Mid Atlantic Radio Club, PO Box 352, Villanova, PA 19085 Talk-In 147.06, 145.13

August 14, 1994:

SARA Carroll County Hamfest, 8AM-?, \$5 adm, \$5 tailgating, \$8 tables

Carroll County Ag Center, Smith Ave, Westminster, MD
Contact: Alan Parker, KS3L, (410) 859-1475
SARA Hamfest, 607 Brentwood Rd, Linthicum, MD 21090
Talk-In 146.52, 224.68, 224.64

Hamfest & Computerfest, 8AM-?, \$4 adm, \$7 tailgating, \$25 tables Career Institute of Technology, Easton, PA Delaware-Lehigh ARC, RR 4 Greystone Bldg, Nazareth, PA 18064-9211 (610) 820-9110 Talk-In 146.70

September 9 & 10, 1994:

Queen Wilhelmina State Park, Mena, Arkansas. \$2 park entrance fee, \$5 adm. Contact Gerald Wallis, N5KKD, (501) 524-3094

September 17&18, 1994:

Virginia Beach Hamfest \$6 adm, \$15 tailgating, \$30 tables, \$125 booths Virginia BEach Pavillion
Manny Steiner, K4DOR, 3512 Olympia Lane, Virginia Beach, VA 23452
(804) HAM-FEST

September 18,1994

South Jersey Radio Assn, 8AM-3PM, \$5 admission, \$5 tailgating Pennsauken High School Parking Lot, near US rt 130 / NJ rt 73 Contact Diane Nafis, N2LCQ, (609) 227-6281, (609) 228-8088 VEC Test Session registration at 9:30 AM Talk-In 145.290-

October 30, 1994:

Mason Dixon Hamfest 8AM-?, \$5 adm, \$5 tailgating, \$15 tables Carroll County Ag Center, Westminster, MD Mason Dixon Hamfest, PO Box 763, Hanover, PA 17331 VE exams \$5.60, 9AM, reg 8AM, Page Evans NE3P, (717) 359-7610 Talk-In 145.410-

Date: 2 Apr 1994 07:27:46 GMT

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com! news.msfc.nasa.gov!sol.ctr.columbia.edu!news.columbia.edu!namaste.cc.columbia.edu! mrw13@network.ucsd.edu

Subject: Misc. Questions on Choosing a Dual-Band HT

To: info-hams@ucsd.edu

Last time I posted a question about buying an HT, many responses said to make sure to ask around here... so here are a few more questions:

What's the difference between the Icom W2A, W21A and W21AT?

What's the difference between the Standard C558A and C178A?

DJ-580T, IC-W21AT, TH-78A, C588A & FT-530 These five HTs were reviewed in last month's QST and as they all have various interesting features, I'm having a hard time choosing between them. To help differentiate them, I would like to know how modifiable they are. Can any of these models NOT be modified to pick-up aircraft frequencies? (Yes I know that two of them don't need to be modified at all.) Now could any of these be modified to receive cellular frequencies without getting bad intermod problems? And the last question, which of them can be modified to transmit on a commercial frequency? (I know that the FCC probably would not approve of this and that if I want scanning I should consider a separate scanner, but I do not want to have to carry an HT, a commercial radio and a scanner.)

If you have any other comments I would of course appreciate them greatly.

Thanks,

Marc Wollemborg

Date: Sat, 2 Apr 94 02:46:30 -0500

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!noc.near.net!

news.delphi.com!usenet@network.ucsd.edu
Subject: Need info on Kenwood R-1000

To: info-hams@ucsd.edu

I have recently gotten hold of an R-1000 with no documentation. Does anyone have an owners manual or can you give me any info on it. Can it be computer controlled? Kenwood no longer supplies manuals for it so I am sort of up the creek here. Any info would be helpful. Please email me at MATTMOORE@DELPHI>COM.

Thanks KE6CZM -----

Date: 2 Apr 1994 01:55:35 -0500

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!news.intercon.com!

news1.digex.net!access1!bote@network.ucsd.edu

Subject: Repeater Voter Questions

To: info-hams@ucsd.edu

jreese@sugar.NeoSoft.COM (Jim Reese) writes:
>Dave Dabell <dave@diusys.cms.udel.edu> wrote:
>> What voter should we use?

>highly recommend it. You can sometimes find surplus Motorola and GE voters >on the used market.

The Motorola Spectra-TAC requires either TLC to keep working within established parameters or some reworking. A recent article in Mobile Radio Technology (or similar rag) discussed how wonderful the improvements made by the author were, but failed to provide any substantive detail on how to implement those improvements.

- >> Anyone have suggestions on how to preserve audio
- >> fidelity over the UHF link?

>deviation of the links, you can get away with no limiter. The audio can be >made flat from below 100 Hz to above 3 kHz with normal narrow-band FM

I second this. You essentially want a pair of wires extended from the remote site to the transmitter site via the magic of radio. The less processing in this path, the better.

- >> What is the best way to match the remote receiver
- >> audio to the main receiver?

>This is the most important aspect of a voted system. If the receivers don't >match, the voter will tend to favor one receiver over another.

One method I have seen used is to simply transmit the main site receiver audio to the main site via radio, however short the distance. This has two advantages:

- A) it matches the audio response to that of the other sites, assuming you use similar equipment and configuration;
- 2) if you suddenly need to make your repeater split-site to eliminate interference, the process is simplified: just pick it up and install it at some distance

from the transmitter. *

The disadvantage is that it adds complexity and cost where you might not want it.

>I think you'll be pretty happy with it. The only down side is the additional >maintenance of the link equipment and voter.

As I recently commented to another gentelman considering entering the repeater business, do not underestimate the amount of time that a more complex repeater system can consume. The analogy is the big, empty hard disk which soon is consumed by new software and data. :)

*Note 2: E.g. we had a single-site repeater suddenly beset with howling feedback starting every sunrise and stopping every sunset. It was WTOP (1500KC) mixing with WLMD (900KC); if you do the math, you'll find that the difference of these two stations is = 600KC. Ta da! Instant intermodulation products. We split the main receiver away from the transmitter and all was right in the world again.

- -

rec.nude: your exit to good living along the Information Toll Road. finger bote@access.digex.net for PGP key and an operator will help you. Only 2 days until Opening Day! How 'bout them Os!!

Date: 2 Apr 94 22:02:47 GMT From: news-mail-gateway@ucsd.edu

Subject: thanks for info - mobile purchase

To: info-hams@ucsd.edu

A week or so ago, I asked the net for advice on a mobile 2m/440 rig that had particularly good out-of-band receive characteristics. Thanks for the advice from over 20 folks.

I apparently was not clear enough in the original post -- I was looking for a unit which could be installed in an auto, not an HT. But the HT advice was good, too.

FYI - I have ordered a Kenwood TM 742A. OK -- let's hear how horrible/great a decision I made.

I was quite surprised and pleased to hear from a couple of folks about Standard products. I hardly ever hear about this brand of radio products.

Anyone willing/able to discuss?

Paul Marsh NOZAU Omaha pmarsh@metro.mccneb.edu

Date: Sat, 2 Apr 1994 22:59:12 GMT

From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa

Subject: Time to lighten up.....

To: info-hams@ucsd.edu

In article <765188612snx@skyld.grendel.com> jangus@skyld.grendel.com (Jeffrey D.
Angus) writes:

>Time to interject some humor here. I spotted this in the Yucks digest and > just knew it belonged here....

>I was toying with using search and replace to insert Jeff Herman's name in >this, but figured that the rest of you would figure it out on your own.

This guy is just like herpes. No getting rid of him. And the article sounds as if it was written for him with his fixation of certain body parts (Where did Conway shoot himself? What did Walt sit on? ad infinitum) And why am I responding to him? Well if he's going to post my emails to him over the net I might as well respond over the net, instead.

Note that he's voluntarily taken the position of moderator on .swap to save us from paying too much for used equipment. Thanks, Jeff.

Jeff (the good guy) NH6IL Jeff NH6IL

Date: Sat, 2 Apr 94 14:36:48 GMT

From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!

europa.eng.gtefsd.com!news.umbc.edu!eff!news.kei.com!ub!galileo.cc.rochester.edu!

uhura.cc.rochester.edu!bstp_ltd@network.ucsd.

Subject: Where to buy crystals

To: info-hams@ucsd.edu

Can anyone recommend a place to buy crystals for HF use. I plan on building a QRP rig using HC/6U crystals. Any suggestions would be welcome.

Brian Stamper bstp_ltd@uhura.cc.rochester.edu KB4JP0
